

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: October 9, 2002, 14:25:23 ; Search time 4127 Seconds  
(without alignments)  
17219.898 Million cell updates/sec

Title: US-09-635-501-1

Perfect score: 3396  
Sequence: 1 gaattggcttcattcctaa.....aaaaaaaaagggcgccgc 3396

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl :

- 1: gb\_ba.\*
- 2: gb\_htg.\*
- 3: gb\_in.\*
- 4: gb\_om.\*
- 5: gb\_ov.\*
- 6: gb\_pat.\*
- 7: gb\_ph.\*
- 8: gb\_pl.\*
- 9: gb\_pr.\*
- 10: gb\_ro.\*
- 11: gb\_sts.\*
- 12: gb\_sy.\*
- 13: gb\_un.\*
- 14: gb\_vi.\*
- 15: em\_ba.\*
- 16: em\_fun.\*
- 17: em\_hum.\*
- 18: em\_in.\*
- 19: em\_mu.\*
- 20: em\_om.\*
- 21: em\_or.\*
- 22: em\_ov.\*
- 23: em\_pat.\*
- 24: em\_ph.\*
- 25: em\_pl.\*
- 26: em\_ro.\*
- 27: em\_sts.\*
- 28: em\_un.\*
- 29: em\_vi.\*
- 30: em\_htg\_hum.\*
- 31: em\_htg\_inv.\*
- 32: em\_htg\_other.\*
- 33: em\_htgo\_inv.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Query Score	Match Length	ID	Description
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1	3396	100.0	3396	6	ARI35177	ARI35177 Sequence
2	3323.4	97.9	3325	9	AF291820	Homo sapi
3	3322.2	97.8	3405	9	AF241254	Homo sapi
4	3309.8	97.5	3334	6	AX047758	Sequence
5	3293.4	97.0	3341	9	HS0600880	Sequence
6	2561	75.4	2599	6	E43988	ACE-analog
7	2556.2	75.3	2599	9	AB046569	Homo sapi
8	2416.4	71.2	2418	6	E39033	MPROT15 pol
9	2415	71.1	2415	6	ARI35178	Sequence
10	2413.4	71.1	2415	6	E43987	ACE-analog
11	1922.2	56.6	2262	6	E39034	MPROT15 pol
12	1890.2	55.7	2638	6	AX047762	Sequence
13	1885.4	55.5	2638	6	AX047765	Sequence
14	1867.2	55.0	2760	10	AB053181	Mus muscu
15	1782.4	52.5	2415	6	AX047760	Sequence
16	1535.4	45.2	2415	6	AX047764	Sequence
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18	982.8	28.9	193615	2	AC058807	Homo sapi
19	813	23.9	1993	10	AB053182	Mus muscu
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22	324	9.5	4014	10	AF201331	Rattus no
23	324	9.5	4014	10	AF201332	Rattus no
24	324	9.5	4014	10	RN003708	Rattus norv
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27	321.6	9.5	4024	6	A00914	H.sapiens g
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33	310.2	9.1	4050	5	CHKACEL	Gallus gall
34	291	8.6	467	6	AR038862	Sequence
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36	286.2	8.4	191453	2	AL671706	Mus muscu
37	286.2	8.4	245087	2	AC091606	Mus muscu
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39	285.8	8.4	2478	6	A31567	H.sapiens t
40	285.8	8.4	2478	6	AR037213	Sequence
41	270.6	8.0	2490	9	HUMTACEB	Human testi
42	270	8.0	2409	4	RABACEA	Rabbit ang
43	268.4	7.9	4803	4	OCANCOE	O.cuniculus
44	257.6	7.6	2551	9	HUMTACEC	Human aberr
45	250.4	7.4	2082	6	ARI166376	Sequence

## ALIGNMENTS

RESULT 1	ARI35177	3396 bp	DNA	linear	PAT 16-MAY-2001
LOCUS	Sequence 1 from patent US 6194556.				
DEFINITION	ARI35177				
ACCESSION	ARI35177.1				
VERSION	GI:14124082				
KEYWORDS	Unknown.				
SOURCE	Unknown.				
ORGANISM	Unclassified.				
REFERENCE	1 (bases 1 to 3396)				
AUTHORS	Acton,S.Laurene and Robison,K.Earl.				
TITLE	Angiotensin converting enzyme homolog and therapeutic and diagnostic uses therefor				
JOURNAL	Patent: US 6194556-A 1 27-FEB-2001;				
FEATURES	Location/Qualifiers				
source	1..3396				
BASE COUNT	1034 a 659 c 772 g 931 t				
ORIGIN					

Query Match 100.0%; Score 3396; DB 6; Length 3396;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 3396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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Ds	1	GAATTCGGCTTCATCCTTAATACGACTCACTATAGGGCTCGAGGGCGCGCCGGGGCAGG	60
Qy	61	TATCTTGGCTCACAGGGGAGGATGTCAAGCTCTTCTCGCTCCTTCTCAGGCTTTGTTGCT	120
Ds	61	TATCTTGGCTCACAGGGGAGGATGTCAAGCTCTTCTCGCTCCTTCTCAGGCTTTGTTGCT	120
Qy	121	GTAACCTGCTCAGTCCACCAATGTAGGAACAGGCCAAGACATTTTGGACAAGTTTAAAC	180
Ds	121	GTAACCTGCTCAGTCCACCAATGTAGGAACAGGCCAAGACATTTTGGACAAGTTTAAAC	180
Qy	181	CACGAAGCCGAAGACCTGTCTATCAAGCTTCACTTGGCTTCTTGGAAATTAACACCAAT	240
Ds	181	CACGAAGCCGAAGACCTGTCTATCAAGCTTCACTTGGCTTCTTGGAAATTAACACCAAT	240
Qy	241	ATTACTGAAGAGAAATGTCCAAACATGAATATGCTGGGCAAAATGCTCTGCTTTTAA	300
Ds	241	ATTACTGAAGAGAAATGTCCAAACATGAATATGCTGGGCAAAATGCTCTGCTTTTAA	300
Qy	301	AAGAACAGTCCACACTTGCCTCAAAATGTATCCACTACAGAAATTCAGAAATCTCACAGTC	360
Ds	301	AAGAACAGTCCACACTTGCCTCAAAATGTATCCACTACAGAAATTCAGAAATCTCACAGTC	360
Qy	361	AAGCTTCAGCTGAGGCTCTTCAGCAAAATGGGTCTTCAAGTCTGTCAGAAAGCAAGAGC	420
Ds	361	AAGCTTCAGCTGAGGCTCTTCAGCAAAATGGGTCTTCAAGTCTGTCAGAAAGCAAGAGC	420
Qy	421	AAACGCTTGAAACAAATCTTAATACAAATGAGCACCATCTACGACTTGAAGAGTTGT	480
Ds	421	AAACGCTTGAAACAAATCTTAATACAAATGAGCACCATCTACGACTTGAAGAGTTGT	480
Qy	481	AACCCAGATTAATCCAAAGAAATCTTATTACTTGAACCAAGTCTTGAATGAATTAATGSCA	540
Ds	481	AACCCAGATTAATCCAAAGAAATCTTATTACTTGAACCAAGTCTTGAATGAATTAATGSCA	540
Qy	541	AACAGTTTACATACAAATGAGGCTCTGGGCTTGGGAAGCTGAGATCTGAGGTCGGC	600
Ds	541	AACAGTTTACATACAAATGAGGCTCTGGGCTTGGGAAGCTGAGATCTGAGGTCGGC	600
Qy	601	AAGCAGCTGAGGCTATATATGAAGATGTGTTGTTGAATAATGAGATGCGCAAGAGCA	660
Ds	601	AAGCAGCTGAGGCTATATATGAAGATGTGTTGTTGAATAATGAGATGCGCAAGAGCA	660
Qy	661	AATCATTATGAGGACTATGGGGATTATGGAGAGGAGACTATGAAGTAAATGGGCTAGAT	720
Ds	661	AATCATTATGAGGACTATGGGGATTATGGAGAGGAGACTATGAAGTAAATGGGCTAGAT	720
Qy	721	GGCTATGACTACAGCCGCGCCAGTTGATTGAAGATGTGGAACATACCTTTGAAGAGATT	780
Ds	721	GGCTATGACTACAGCCGCGCCAGTTGATTGAAGATGTGGAACATACCTTTGAAGAGATT	780
Qy	781	AAACCATTAATGAACATCTTCATGCTATGTGAGGGAAGTGTATGAATATGCTATATCCT	840
Ds	781	AAACCATTAATGAACATCTTCATGCTATGTGAGGGAAGTGTATGAATATGCTATATCCT	840
Qy	841	TCCTATATCAGTCCAAATTTGGATGCCCTGCTCTATTTGCTTGGTGATATCTGGGGTAGA	900
Ds	841	TCCTATATCAGTCCAAATTTGGATGCCCTGCTCTATTTGCTTGGTGATATCTGGGGTAGA	900
Qy	901	TTTTGGACAATCTGTACTCTTTGACAGTTCCCTTTTGGACGAAACCAACATATAGATGTT	960
Ds	901	TTTTGGACAATCTGTACTCTTTGACAGTTCCCTTTTGGACGAAACCAACATATAGATGTT	960
Qy	961	ACTGATGCAATGTGGACAGGCTGGGATGCACAGAAATATCAAGSGCCGAGAG	1020
Ds	961	ACTGATGCAATGTGGACAGGCTGGGATGCACAGAAATATCAAGSGCCGAGAG	1020
Qy	1021	TTCTTGTATCTGTGTGCTCTTCCCTTAATATGACTCAAGGATCTGGGAAATTTCCATGCTA	1080
Ds	1021	TTCTTGTATCTGTGTGCTCTTCCCTTAATATGACTCAAGGATCTGGGAAATTTCCATGCTA	1080

Qy	1081	ACGACCCAGGAATGTTTCAAGAACGAGTCTGCCATCCACAGCTTGGACCTGGGGAAG	1140
Ds	1081	ACGACCCAGGAATGTTTCAAGAACGAGTCTGCCATCCACAGCTTGGACCTGGGGAAG	1140
Qy	1141	GGCAGCTTACAGGATCCTTATGTGCACAAAAGGTGACAAATGAGAGCTTCTGTACAGCTCAT	1200
Ds	1141	GGCAGCTTACAGGATCCTTATGTGCACAAAAGGTGACAAATGAGAGCTTCTGTACAGCTCAT	1200
Qy	1201	CATGAGATGGGGCANATCCAGATATGATATGGCATATGTGTGCACAACTTTTCTGTCTAAGA	1260
Ds	1201	CATGAGATGGGGCANATCCAGATATGATATGGCATATGTGTGCACAACTTTTCTGTCTAAGA	1260
Qy	1261	AATGGAGCTAATGAAGGATTCATGAAGCTGTGTGGGAAATCATGTCACTTCTGTGACGCC	1320
Ds	1261	AATGGAGCTAATGAAGGATTCATGAAGCTGTGTGGGAAATCATGTCACTTCTGTGACGCC	1320
Qy	1321	ACACTAAGCAATTTAAATCCATTTGGTCTTCTGTCAACCGATTTTCAAGAGACAATGAA	1380
Ds	1321	ACACTAAGCAATTTAAATCCATTTGGTCTTCTGTCAACCGATTTTCAAGAGACAATGAA	1380
Qy	1381	ACAGAAATAAACTTCTGCTCAAAACAGCACTCACGATTTGTTGGGACTCTGCACTTTACT	1440
Ds	1381	ACAGAAATAAACTTCTGCTCAAAACAGCACTCACGATTTGTTGGGACTCTGCACTTTACT	1440
Qy	1441	TACATGTTAGAGAAAGTGGAGTGGTCTTTTAAAGGGGAAATTTCCCAAGAGACAGTGG	1500
Ds	1441	TACATGTTAGAGAAAGTGGAGTGGTCTTTTAAAGGGGAAATTTCCCAAGAGACAGTGG	1500
Qy	1501	ATGAAAAGTGTGGGAGATGAAGCGAGAGATAGTTGGGCTGTGGAACCTGTGCCCCAT	1560
Ds	1501	ATGAAAAGTGTGGGAGATGAAGCGAGAGATAGTTGGGCTGTGGAACCTGTGCCCCAT	1560
Qy	1561	GATGAAACATCTGTGACCCGCTCTCTGTTCCATGTTTCTTAATGATTACTCATTTACT	1620
Ds	1561	GATGAAACATCTGTGACCCGCTCTCTGTTCCATGTTTCTTAATGATTACTCATTTACT	1620
Qy	1621	CGATATTACACAGGACCCCTTACCAATTCAGATTTCAAGAGGACTTGTCAACGACT	1680
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Ds	1741	CTGTTCAATATGTGAGGCTTGGAAAATCAGAACCTTGACCTTAGCATTTGGAATGTT	1800
Qy	1801	GTAGGAGCAAGAACATGAATGTAAAGCCACTGCTCAACTACTTTGAGCCCTTATTTACC	1860
Ds	1801	GTAGGAGCAAGAACATGAATGTAAAGCCACTGCTCAACTACTTTGAGCCCTTATTTACC	1860
Qy	1861	TGGCTGAAGACAGACAAAGATTTCTTTTGGGATGAGTACCGACTGGAGTCCATAT	1920
Ds	1861	TGGCTGAAGACAGACAAAGATTTCTTTTGGGATGAGTACCGACTGGAGTCCATAT	1920
Qy	1921	GCAGACCAAGCAATCAAAAGTGAAGATAAGCTTAAATAGCTTCTTGGAGATAAAGCATAT	1980
Ds	1921	GCAGACCAAGCAATCAAAAGTGAAGATAAGCTTAAATAGCTTCTTGGAGATAAAGCATAT	1980
Qy	1981	GAATGGAACAGCAATGAATGTACCTGTTCCCATCATCTGTTGCATATGCTATGAGGCAG	2040
Ds	1981	GAATGGAACAGCAATGAATGTACCTGTTCCCATCATCTGTTGCATATGCTATGAGGCAG	2040
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Ds	2041	TACTTTTTTAAAGTAAATAATCAGATCATTTTGGGGAGGAGGATGTCGAGTGGCT	2100
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 LOCUS Homo sapiens ACE-related carboxypeptidase ACE2 mRNA, complete cds.  
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 VERSION AF291820.1 GI:9802432  
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 REFERENCE 1 (bases 1 to 3325)  
 AUTHORS Donoghue, M., Hsieh, F., Baronas, E., Godbout, K., Gosselin, M.,  
 Stagliano, N., Donovan, M., Woolf, B., Robison, K., Jeyaseelan, R.,  
 Breitbart, R.E. and Acton, S.  
 TITLE A novel angiotensin-converting enzyme-related carboxypeptidase  
 (ACE2) converts angiotensin I to angiotensin 1-9  
 JOURNAL Cirt. Res. 87 (5), E1-E9 (2000)  
 MEDLINE 20429895  
 PUBMED 10969042  
 REFERENCE 2 (bases 1 to 3325)  
 AUTHORS Donoghue, M., Woolf, B., Robison, K. and Acton, S.  
 TITLE Direct Submission  
 JOURNAL Submitted (01-AUG-2000) Cardiovascular Biology, Millennium  
 Pharmaceuticals, Inc, 75 Sidney Street, Cambridge, MA 02139, USA  
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 Query Match 97.9%; Score 3323.4; DB 9; Length 3325;  
 Best Local Similarity 100.0%; Pred. No. 0;  
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QY 602 AGCAGCTGAGGCCATATATGAGAGTATGTGCTCTGGAATAATGAGATGCGCAAGAGCAA 661  
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Tipnis,S.R., Hooper,N.M., Hyde,R., Karran,E., Christie,G. and  
Turner,A.J.  
TITLE A human homolog of angiotensin-converting enzyme. Cloning and  
functional expression as a captopril-insensitive carboxypeptidase  
J. Biol. Chem. 275 (43), 33238-33243 (2000)  
PUBMED 10924499  
AUTHORS 2 (bases 1 to 3405)  
Tipnis,S.R., Hooper,N.M., Hyde,R.J., Christie,G., Karran,E. and  
Turner,A.J.  
TITLE Direct Submission  
JOURNAL Submitted (02-MAR-2000) School of Biochemistry and Molecular  
Biology, University of Leeds, Mount Preston Street, Leeds, West  
Yorkshire LS5 9JT, UK  
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## RESULT 7

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DEFINITION Homo sapiens ace2 mRNA, complete cds.  
ACCESSION AB04569  
VERSION AB04569.1 GI:13516971  
KEYWORDS  
SOURCE Homo sapiens adult cDNA to mRNA, clone:kaia4505.  
ORGANISM Homo sapiens  
Library kaia clone:kaia4505.  
REFERENCE  
AUTHORS Suzuki,Y., Watanabe,M. and Sugano,S.  
TITLE Cloning, expression analysis and chromosomal localization of a novel ACE like enzyme  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 2599)  
AUTHORS Komatsu,T., Suzuki,Y. and Sugano,S.  
TITLE Direct Submission  
JOURNAL Submitted (25-JUL-2000) Takami Komatsu, the Institute of Medical Science, Virology; 4-6-1, Minato-ku, Tokyo 108-8639, Japan  
(E-mail:komatsu@ims.u-tokyo.ac.jp, Tel:81-3-5449-5283(ex.75283),

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Best Local Similarity	99.3%	Pred. No. 0		
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Db 961 CCTAATGACTCAAGGATTTGGGAAATTCCTATGCTTAACGGAGCCAGGAAATTTTCAG 1020  
QY 1102 AAAGCAGTCTGCCATCCACAGCTTGGGACCTGGGAGGCGGACTTCCAGGATCCTTATG 1161  
Db 1021 AAAGCAGTCTGCCATCCACAGCTTGGGACCTGGGAGGCGGACTTCCAGGATCCTTATG 1080  
QY 1162 TGCAAAAGGTGACAAATGAGCAGTCTCTGACAGCTCATATGATGAGATGGGCAATCCAG 1221  
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Db 1501 GCATCTCTGTTCCATGTTTCTAATGATTACTCAATTCATTCGATATTACACAAAGACCTTT 1560  
QY 1642 TACCRAATTCACGCTTTCAGAAGCACTTTGTCAAGCAGCTAAACATGAAGGCCCTCTTGAC 1701  
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QY 1762 GGAATATCAGAACCTGGACCTTAGCATTGGAATAATGTTAGGAGCAAAAGCAATGAAT 1821  
Db 1681 GGAATATCAGAACCTGGACCTTAGCATTGGAATAATGTTAGGAGCAAAAGCAATGAAT 1740  
QY 1822 GTAAGGCCACTGCTCAACTACTTTTACCTGGCTGAAAGACCAAGCAAG 1881  
Db 1741 GTAAGGCCACTGCTCAACTACTTTTACCTGGCTGAAAGACCAAGCAAG 1800  
QY 1882 AATTCCTTTTGGGATGGAGTACCGACTGGAGTCCATATGAGACCAAGCAATCAAGTGT 1941  
Db 1801 AATTCCTTTTGGGATGGAGTACCGACTGGAGTCCATATGAGACCAAGCAATCAAGTGT 1860  
QY 1942 AGGATAAGCCTAAATCAAGCTCTTGGAGATAAAGCATATGAATGGAACGCAATGAATG 2001  
Db 1861 AGGATAAGCCTAAATCAAGCTCTTGGAGATAAAGCATATGAATGGAACGCAATGAATG 1920  
QY 2002 TACCTGTTCCGATCATCTGTTGCATATGCTATGAGCGAGTACTTTTAAAAGTAAAAAT 2061  
Db 1921 TACCTGTTCCGATCATCTGTTGCATATGCTATGAGCGAGTACTTTTAAAAGTAAAAAT 1980  
QY 2062 CAGATGATCTTTTGGGAGGAGGATGTCGAGTGGCTTAATTTGAAACCAAGCAATCTCC 2121  
Db 1981 CAGATGATCTTTTGGGAGGAGGATGTCGAGTGGCTTAATTTGAAACCAAGCAATCTCC 2040  
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QY 2242 AGCCTAGATTTCTGGGGATACAGCAACACACTTGGACCTCTTAACCAAGCCCTGTTTCC 2301  
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Db 2401 GTTCAGACCTCTCTTTTATG 2418

RESULT 9  
AR135178  
LOCUS AR135178 2415 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 3 from patent US 6194556.  
ACCESSION AR135178  
VERSION AR135178.1 GI:14124083  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.



REFERENCE	1 (bases 1 to 2415)
AUTHORS	Acton,S.Laurene and Robison,K.Earl.
TITLE	Angiotensin converting enzyme homolog and therapeutic and diagnostic uses therefor
JOURNAL	Patent: US 6194556-A 3 27-FEB-2001;
FEATURES	Location/Qualifiers
source	1..2415
BASE COUNT	743 a 483 c 555 g 634 t
ORIGIN	/organism="unknown"
Query Match	71.1%; Score 2415; DB 6; Length 2415;
Best Local Similarity	100.0%; Pred.No. 0;
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QY	82 ATGTCAAGCTCTTCTGGCTCCTTCTTCAGCCCTTTGCTCTAACTGCTGCTCAGTCCACC 141 
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Db	61 ATTGAGAACACGCCAAGACATTTTTGGACAAGTTTAACCAAGCGGAAGACCTTGTTTC 120 
QY	202 TATCAAGTTCACTTGCCTCTTGSNAITATAACCAATATTACTGAAGAGAATGTCAA 261 
Db	121 TATCAAGTTCACTTGCCTCTTGGAAITATAACCAATATTACTGAAGAGAATGTCAA 180 
QY	262 AACATGAATAATGCTGGGGCAAAATGGTCTGCCCTTTTAAAGGAACAGTCCACACTTGC 321 
Db	181 AACATGAATAATGCTGGGGCAAAATGGTCTGCCCTTTTAAAGGAACAGTCCACACTTGC 240 
QY	322 CAAATGTATCCACTACAGAATATCAGATCTCACAGTTCACAGTTCAGTGCAGGCTCTT 381 
Db	241 CAAATGTATCCACTACAGAATATCAGATCTCACAGTTCAGTTCAGTGCAGGCTCTT 300 
QY	382 CAGCAAAAATGGGTCTTCAGTCTCTCAGAACACAGAGCAAAAGCGTTGAACAAATTCFA 441 
Db	301 CAGCAAAAATGGGTCTTCAGTCTCTCAGAACACAGAGCAAAAGCGTTGAACAAATTCFA 360 
QY	442 AATFACAATGAGCACCACATCTACAGTACTTGGAAAGCTTTGTAAACCCAGATATCCACAAGAA 501 
Db	361 AATFACAATGAGCACCACATCTACAGTACTTGGAAAGCTTTGTAAACCCAGATATCCACAAGAA 420 
QY	502 TGCTTATTACTTGAACACAGGTTTGAATGAATAATNGCCAACAGTTTAGACTACAATGAG 561 
Db	421 TGCTTATTACTTGAACACAGGTTTGAATGAATAATNGCCAACAGTTTAGACTACAATGAG 480 
QY	562 AGGCTCTGGGCTTGGGAAGCTGGAGATCTGAGTCTGGCAAGCAGCTGAGGCCATTATAT 621 
Db	481 AGGCTCTGGGCTTGGGAAGCTGGAGATCTGAGTCTGGCAAGCAGCTGAGGCCATTATAT 540 
QY	622 GAAGATATGTGGTCTTGAAAAATGAGATGGCAAGACCAATCATTTATGAGGACTATGGG 681 
Db	541 GAAGATATGTGGTCTTGAAAAATGAGATGGCAAGACCAATCATTTATGAGGACTATGGG 600 
QY	682 GATTATTGGAGAGGAGACTATGAAGTAAATGGGGTAGATGGCTATGACTACAGCCGCGGC 741 
Db	601 GATTATTGGAGAGGAGACTATGAAGTAAATGGGGTAGATGGCTATGACTACAGCCGCGGC 660 
QY	742 CAGTTGATGAAGATGTGGACATACCTTTGAAGAGATTAACCCATATATGAACATCTT 801 
Db	661 CAGTTGATGAAGATGTGGACATACCTTTGAAGAGATTAACCCATATATGAACATCTT 720 
QY	802 CATGCCATGTGAGGGCAAAAGTTGAATGAATGCCCTATCTCTTCCTATATCATAGTCCAAATTGGA 861 
Db	721 CATGCCATGTGAGGGCAAAAGTTGAATGAATGCCCTATCTCTTCCTATATCATAGTCCAAATTGGA 780 
QY	862 TGCCTCCCTGCTCATTTGCTTTGGTGAATATGTGGGGTAGATTTTGGACAAATCTGTACTCT 921 
Db	781 TGCCTCCCTGCTCATTTGCTTTGGTGAATATGTGGGGTAGATTTTGGACAAATCTGTACTCT 840 
QY	922 TTTCACAGTTTCCCTTTGGACAGAAACCAACATAGATGTTTACTCATGCAATGGTGGACACG 981 

QY	2062	CAGATGATCTTTTGGGAGGAGATGCGAGTGGCTAAATTTGAACCAAGATCTCC	2121
Db	1981		
QY	2122	TTTAATTTCTTTGTCACCTGACCTAAATAATGTCTGATATCANTVCCCTAGAACTT	2181
Db	2041		
QY	2182	GAAGAGCCATCAGATGTCGGAGCGTATCAATGATGCTTTCCCTGANTGACAC	2241
Db	2101		
QY	2242	AGCTAGAGTTCTGGGATACAGCAACACTTGGACCTCTAACCCAGCCCTGTTTCC	2301
Db	2161		
QY	2302	ATATGCTGATGTTTTGGAGTTCTGATGGAGTGTAGTGGTGGCATGCTCATCTG	2361
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QY	2362	ATCTCACTGGATCAGAGATCGGAAGAGAAAAATAAAGCAAGAGTGGAGAAAACTCT	2421
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QY	2422	TATGCTCCTCATGATATTAGCAAGAGAAAAATATCCAGGATTTCCRAAACACTGATG	2481
Db	2341		
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LOCUS	E43987	2415 bp	DNA linear PAT 31-JAN-2002
DEFINITION	ACE-analogous gene.		
ACCESSION	E43987		
VERSION	E43987.1 GI:18629190		
KEYWORDS	JP 2001046072-A/1.		
SOURCE	unidentified.		
ORGANISM	unclassified.		
REFERENCE	1 (bases 1 to 2415)		
AUTHORS	Sugano,S. and Komatsu,T.		
TITLE	ACE-analogous gene		
JOURNAL	Patent: JP 2001046072-A 1 20-FEB-2001;		
COMMENT	OTSUKA PHARMACEUT CO LTD		
	OS unknown		
	PN JP 2001046072-A/1		
	PD 20-FEB-2001		
	PF 06-AUG-1999 JP 1999223892		
	PR		
	PI SUMIO SUGANO,TAKAMI KOMATSU		
	PC C12N15/09,A61K31/00,A61K31/7088,A61K38/00,A61K38/55,		
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	C12N1/19,		
	PC C12N1/21,C12N5/10,C12Q1/68,G01N33/53,C12N15/00,A61K37/02, PC		
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Best Local Similarity		100.0%;	Pred. No. 0;		
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QY	142	ATTGAGGAACAGCCCAAGACATTTTGGACAAGTTTAAACCAAGCCGAAGACCTGTC	201		
Db	61	ATTGAGGAACAGCCCAAGACATTTTGGACAAGTTTAAACCAAGCCGAAGACCTGTC	120		
QY	202	TATCAAAGTTCACTTGTCTTGTGAATATTAACACCAATATTACTTGAAGAAATGTC	261		
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QY	262	AACATGAATAAATGCTGGGACAAATGGTCTGCTTTTAAAGGAACACGTCACACTGCC	321		
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QY	322	CAATGTATCCACTACAAGAAATTCAGAAATCTCACAGTCAAGCTTCAGCTCGAGCTCT	381		
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QY	382	CAGCAAAATGGCTCTCAGTCTGTCAGAAGACAAAGCAACGGTTGAACACAAATGCTA	441		
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QY	442	AATACAATGAGCACCATCTACAGTACTGGAAGAAAGTTTGTAAACCCAGATTAATCC	501		
Db	361	AATACAATGAGCACCATCTACAGTACTGGAAGAAAGTTTGTAAACCCAGATTAATCC	420		
QY	502	TGCTTATTACTTGAACCAAGTTTGAATGAATAATGGCAACAGTTTACAGTACAATGAG	561		
Db	421	TGCTTATTACTTGAACCAAGTTTGAATGAATAATGGCAACAGTTTACAGTACAATGAG	480		
QY	562	AGGCTCTGGGCTTGGGAAAGCTGGAGATCTGAGGTGGGCAAGCAGCTGAGGCCATTATAT	621		
Db	481	AGGCTCTGGGCTTGGGAAAGCTGGAGATCTGAGGTGGGCAAGCAGCTGAGGCCATTATAT	540		
QY	622	GAAGAGTATGGTCTTGAATAATGAGATGGCAAGCAAAATCATATTAGAGACTATGGG	681		
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QY	682	GATTATTGGAGAGGAGACTATGAAGTAAATGGGTAGATGGCTAGCTAGACTAGCGCGGC	741		
Db	601	GATTATTGGAGAGGAGACTATGAAGTAAATGGGTAGATGGCTAGCTAGACTAGCGCGGC	660		
QY	742	CAGTTGATTGAAGATGTGGAACATACCTTTGAAGAGATTAACCAATATATGAACATCTT	801		
Db	661	CAGTTGATTGAAGATGTGGAACATACCTTTGAAGAGATTAACCAATATATGAACATCTT	720		
QY	802	CATGCCATGTGAGGCAAGTTGATGAATGCCTATCCCTTCCTATATCAGTCCCAATGGA	861		
Db	721	CATGCCATGTGAGGCAAGTTGATGAATGCCTATCCCTTCCTATATCAGTCCCAATGGA	780		
QY	862	TGCTCCCTGCTCATTTGCTTGGTGATATGTGGGGTAGAATTTTGGACAAAATCTGTACTCT	921		
Db	781	TGCTCCCTGCTCATTTGCTTGGTGATATGTGGGGTAGAATTTTGGACAAAATCTGTACTCT	840		
QY	922	TTGACAGTTCCCTTTGGACAGAAACCAACATAGATGTTACTGATGCAATGCTGGACCCAG	981		
Db	841	TTGACAGTTCCCTTTGGACAGAAACCAACATAGATGTTACTGATGCAATGCTGGACCCAG	900		
QY	982	GCTGGGATGCACAGAAATATTCAGGAGCCGAGAAAGTTCTTTGTATCTGTTGGTCTT	1041		
Db	901	GCTGGGATGCACAGAAATATTCAGGAGCCGAGAAAGTTCTTTGTATCTGTTGGTCTT	960		
QY	1042	CCTAATATGACTCAAGGATTTCTGGGAAATATTCCTGCTTAACGGACCCAGGAAATGTT	1101		
Db	961	CCTAATATGACTCAAGGATTTCTGGGAAATATTCCTGCTTAACGGACCCAGGAAATGTT	1020		
QY	1102	AAAGCAGTCTGCCATCCACAGCTTGGGACCTTGGGACCTTGGGAGGCGGAGCTTTCAGGAT	1161		





QY	2389	AAGAAAAATAACAGCAAGAGTGGAGAAAAATCCCTATTATGCTCCATCGATATTACCAAGGA	2448
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LOCUS	AX047762	2638 bp	DNA
DEFINITION	Sequence 5 from Patent WO0070032.		
ACCESSION	AX047762		
VERSION	AX047762.1	GI:11876768	
KEYWORDS			
SOURCE	Mus sp.		
ORGANISM	Mus sp.		
REFERENCE	1. (bases 1 to 2638)		
AUTHORS	Piddington, C.S., Petrie, C.R., Shoemaker, K.E. and Bishop, P.D.		
TITLE	Zace2: a human metalloenzyme		
JOURNAL	Patent: WO 0070032-A-5 23-NOV-2000;		
FEATURES	ZymoGenetics, Inc. (US)		
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	FFYSPQNVSDTIPRSEVEDAIRMGRKINDVFLGNDNSLEFLIHVPTLPPYQPPYV		
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Query Match	55.7%;	Score 1890.2;	DB 6; Length 2638;
Best Local Similarity	84.1%;	Pred. No. 0;	
Matches 2162;	Conservative	0; Mismatches 393;	Indels 16; Gaps 2;
QY	51	CCGGGGCAGGTATCTTGGCTCACAGGGCAGCATGTCAAGCTCTTCTCGCTCTCTCTCAG	110
Db	75	CAGTGGATGGGATCTTGGCGCACGGGAAAGATGTCACGCTCTCTCGCTCTCTCTCAG	134
QY	111	CCTTGTGTGCTGAACCTGTGCTCAGTCACCACTTGGAGAACAGGCAACATTTTTTGA	170
Db	135	CCTTGTGTGCTGTACTGTGCTCAGTCCCTCACCCGAGGAATGCCAAGACATTTTTTAA	194
QY	171	CAAGTTTAACACGAGCGGAAGACCTGTTCTATCAAAAGTTCACCTTCTTGTGAATTA	230
Db	195	CAACTTTAATCATGGAAGCTGGAAGACTGTCTTATCAAAGTTCACCTTCTTGTGAATTA	254
QY	231	TACACCATATTTACTTGAGAGAAATGTCCTCAAAACATGAATAATGTGGGACAAAATGGT	290
Db	255	TAAATACATTTACTTGAAGAAATATGCCCAAAGATGAGTGAGGCTGCAGCCAAATGGTC	314
QY	291	TGCTTTTTTAAAGGAACAGCTCCACACTTCCGCAAAATGTATCCACTACAGAATAATTAGAA	350

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Db	1455	ACCCTTTACTTTACATGTTAGAGAAGTGGAGGTGGATGGCTTTTAAAGGGGAAATTTCCCAA	1514
Qy	1491	AGACAGTGGATGAAAAGTGGTGGNGATGAAGCCAGAGATAGTTGGGTGGTGGGAACC	1550
Db	1515	AGACAGTGGATGAAAAGTGGTGGGAGATGAAGCGGGAGATCGTTGGTGGTGGGAGCC	1574
Qy	1551	TGTGCCCATGATGAACATACTGTGACCCCGCATCTCTGTGGTCCATGTTTCTTAATGATTA	1610
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Qy	1731	TGGACAGAACTGTTCAATATGCTGAGGCTTGGAAAAATCAGAACCTCGACCCCTAGCATTT	1790
Db	1755	TGGCAGAACTTCTCAAGATGTGAGTCTTGGAAATTCAGAGCCCTGGACCAAGCCTT	1814
Qy	1791	GGAATATGTTGTAGGAGCAAGAACAATGAATCTAAGGCCACTGCTCAACTACTTTTGAGCC	1850
Db	1815	GGAATATGTTGTAGGAGCAAGNATGATGATTAACCCACTGCTCAATTAATTTTCCCAACC	1874
Qy	1851	CTTATTTACCTGGCTGAAAGCCAGAACAGAAATTTCTTTTGGGATGGATACCGACTG	1910
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Qy	1911	GAGTCCATATGCAGCAAAAGCATCAAGTGAAGATAGCCTAAAAATCAGCTCTTTGGAGA	1970
Db	1935	GAGCCCATATGCCCGCAAAAGCATTAAGTGAAGATAGCCTAAAAATCAGCTCTTTGGAGC	1994
Qy	1971	TAAAGCATATGAATGGAAGCACAATGAATGTACCTGTTCCGATCATCTGTTGCATATGC	2030
Db	1995	TAATGCATATGAATGGACCAACAGCAAAATGTCCTGTTCCGATCATCTGTTGCATATGC	2054
Qy	2031	TATGAGCAGTACTTTTAAAGTAAAAAATCAGATGATCTTTTGGGAGGAGGATGT	2090
Db	2055	CATGAGAAAGTATTTTCAATTAATCAAAACAGACAGTTCCTTTTCTAGGAAAGATGT	2114
Qy	2091	GCAGTGGCTAAATTTGAAACCAGAAATCTCTTTAAATTTCTTTGTCACTGCACCTAAAA	2150
Db	2115	ACGAGTGAGCGATTTGAAACCAAGAGTCTCCTTCTACTCTTTGTCACTCACCCCAAA	2174
Qy	2151	TGTGTCGATATCATTCCTAGAATCTGAATTTGAAAGGCCATCAGGATGTCCTGGAGCCG	2210
Db	2175	TGTGTCGATGATTCCTAGAAGTGAAGTTGAAGATGCCATCAGGATGTCCTGGGGCCG	2234
Qy	2211	TATCAATGATGCTTTCCGTCCTGAATGACAACAGCCTAGAGTTTCTGGSGATACAGCCAAC	2270
Db	2235	CATCAATGATGCTTTGGCCTGAATGATACAGCCTGGAGTTCTGGGGATTCACCCAAC	2294
Qy	2271	ACTTGACCTCTTAACAGCCCTCTGTTTCCATATGGCTGATTTTGGAGTTGTGTAT	2330
Db	2295	ACTTGAGCACCTTACCAGCCTCTGTCAACATATGGCTGATTAATTTTGGTGTGTGAT	2354
Qy	2331	GGGAGTGATGTTGGATGTTCATCTGATCTTCACTGGGATCAGAGATCGGAAGAA	2390
Db	2355	GGCACTGTGTGGTTGGCATCTCATCTGATTTTGGAGTGGATCGATATTAGCAAAAGAGA	2414
Qy	2391	GAAAAATGAAGCAAGAAGTGGAGAAATTCCTTATGCCCTCCATGATATTAGCAAAAGAGA	2450
Db	2415	GAAAAATGAACAAAAAGAGAAGAGAACCCCTTATGACTCGATGGACATTCGAAAAGAGA	2474
Qy	2451	AAATATTCAGGATTCCAAACACTGATGTTGTCAGACCTCCTTTTATAGAAAAATCTATG	2510
Db	2475	AGCAATGAGGATTTCCAAAACAGTGAATGCTCAGACTTCTTTTATAGCAAAAGCACTT	2533

QY	2511	TTTTTCCCTCTTGAGGTGATTTTGGTATGTAAATTTCAATTCATGCTATAGAAAAATAT	2570
Db	2534	-----GTCATCTTCCCTGTGTAAATGCTAACTTCATAGTACACAAAATAT	2579
QY	2571	AAGATGATAAAGATATCATTAANTGTCAAAACATATGACTCTGTGTCAGAAAA	2621
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LOCUS	AX047765	2638 bp	DNA linear PAT 15-DEC-2000
DEFINITION	Sequence 8 from Patent WO0070032.		
ACCESSION	AX047765		
VERSION	AX047765.1	GI:11876771	
KEYWORDS	.		
SOURCE	Mus sp.		
ORGANISM	Mus sp.		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus; 1 (bases 1 to 2638)		
AUTHORS	Piddington, C.S., Petrie, C.R., Shoemaker, K.E. and Bishop, P.D.		
TITLE	Zace2: a human metalloenzyme		
JOURNAL	Patent: WO 0070032-A 8 23-NOV-2000; ZymoGenetics, Inc. (US)		

FEATURES  
SOURCE

CDS

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EPADGRKVVCHPTAWDLGHGDFR

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DYSEIRYTRTYQFQFEALCQA

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Best Local Similarity 84.0%; Pred. No. 0; Mismatchatches 2159; Conservative 0; Mismatch

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III CCTGTGCTGTAAGTCTGCTCAGTCCACCATTC

135 CCTTGGTTCTGTTACTATCTGCCTCAGCTCCACCC

135 CCTGGTGGCTGTTACCTGCTCAGTCCCTCACC

171 CAAGTTTAAACCACGAGCCGAGACCTGTTCTATC

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195 CAACTTTAATCAGGAGGCTGAAGACCTGTCTTATC

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231 TAAACCAATATTACTGAAGAGAAATGTCCAAACAC

255 TAA TACTAACATTACTCAGCAGAAATCCCAATAC

255 TATTACCTATACCTGTAAGATAATGCCCAAAAGA

QY 291 TGCCTTTTAAAGAACAGTCCACACTTGCCCAAAATGTATCCACTACAAGAAATTCAGAA 350  
 Db 315 TGCCCTTTTATGAAGAACAGTCTAAGACTGCCCCAAAGTTTCTCACTACAGAAATCCAGAC 374  
 QY 351 TCTCACAGTCAAGCTTTCAGCTGCAGGCTCTTTCAGCAAAATGGGTCTTCAGTGTGTGAGA 410  
 Db 375 TCCGATCATCAAGGCTCAACTACAGGCCCTTCAGCAAAATGGGTCTTCAGCACCTCTCAGC 434  
 QY 411 AGACAAGAGCAAAACGGTTTGAACACAATCTCAAAATACAAATGAGCACCACTCTACAGTACTGG 470  
 Db 435 AGACAAGAACAAACAGTTTGAACACAATCTCAAAATACAAATGAGCACCACTCTACAGTACTGG 494  
 QY 471 AAAAGTTTGAACCCAGATATCCACAAGAAATGCTTATTAATTTGAACACAGCTTTGAATGA 530  
 Db 495 AAAAGTTTGAACCCAGATATCCACAAGAAATGCTTATTAATTTGAACACAGCTTTGAATGA 554  
 QY 531 AATAATGGCAACAGCTTTAGACTTCAATGAGAGGCTCTGGGCTTGGGAAACCTGGAGATC 590  
 Db 555 AATAATGGCAACAGCTTTAGACTTCAATGAGAGGCTCTGGGCTTGGGAAACCTGGAGATC 614  
 QY 591 TGAGCTCGGCAAGCAGCTGAGGCCATATATGAAGAGTATGTTGTTGAAAAATGAGAT 650  
 Db 615 TGAGCTCGGCAAGCAGCTGAGGCCATATATGAAGAGTATGTTGTTGAAAAATGAGAT 674  
 QY 651 GGCAAGAGCAAAATCATATGAGGACTATGGGATTTATTTGAGAGGAGACTATGAAGTAAA 710  
 Db 675 GGCAAGAGCAAAATCATATGAGGACTATGGGATTTATTTGAGAGGAGACTATGAAGCAGA 734  
 QY 711 TGGGGTAGATGGCTATGACTACAGCCGCGGCCAGTTGATTTGAAGATGTTGGAACATACCTT 770  
 Db 735 TGGGGTAGATGGCTATGACTACAGCCGCGGCCAGTTGATTTGAAGATGTTGGAACATACCTT 794  
 QY 771 TGAAGAGATTTAAACCATATATGAACATCTTCATGCCCTATGAGGGGCAAAAGTTGATGAA 830  
 Db 795 CGCAGAGATCAAGCCATTTGATGAGCATCTTCATGCCCTATGAGAGGAGGATTTGATGGA 854  
 QY 831 TGCCCTATCCTTCTATATCAGTCCAAATGGATGGATGCCCTGCCCTATGCTTGTGTTGATAT 890  
 Db 855 TACCTACCTTCTATATCAGTCCAAATGGATGGATGCCCTGCCCTATGCTTGTGTTGATAT 914  
 QY 891 GTGGGTAGATTTGGACAAATCTGTACTCTTTGACGTTCCCTTTGGACAGAAACCAAA 950  
 Db 915 GTGGGTAGATTTGGACAAATCTGTACTCTTTGACGTTCCCTTTGGACAGAAACCAAA 974  
 QY 951 CATAGATGTTTACTGATGCAATGGTGACAGGCCCTGGGATGGACAGAGAAATTTCAAGGA 1010  
 Db 975 CATAGATGTTTACTGATGCAATGGTGACAGGCCCTGGGATGGACAGAGAAATTTCAAGGA 1034  
 QY 1011 GGCCGAGAAGTTCTTTGATCTGTTGGTCTTCCATATGACTCAAGGATTTCTGGGAAA 1070  
 Db 1035 GGACAGAAATTTCTTTGTTCTGTTGGCTTCTCATATGACTCAAGGATTTCTGGGAAA 1094  
 QY 1071 TTCCATGCTTAAGGAGCCAGGAAATGTTTCAAGAGCAGTCTGCCATGCCACAGCTTTGGGA 1130  
 Db 1095 CTCTATGCTGACTGACGCAAGCAGATGGCCGGAAGTTGTTGCCACCCACAGCTTTGGGA 1154  
 QY 1131 CTTGGGGAAGGGGACTTTCAGGATCCTTATGTCACAAAGGTGACAAATGGACGACTTCTCT 1190  
 Db 1155 TCTGGGACAGGAGCTTCAGAAATCAAGATGTTACAAAGGTCACAAATGGCAACTTCTT 1214  
 QY 1191 GACAGCTCATGAGATGGGCAATATCCAGTATGATATGGCATATGCTGCAACACCTTT 1250  
 Db 1215 GACAGCCCATACAGATGGGACACATCCAAATGATGATATGATATGATATGATATGATATGAT 1274  
 QY 1251 TCTGCTAAGAAATGGAGCTTAATGAAGGATTTCCATGAAGCTTGTGGGAAATCATGTCAC 1310  
 Db 1275 CTTGCTAAGAAACGGAGCCATGAGGGTTCCATGAAGCTGTTGGGAAATCATGTCAC 1334  
 QY 1311 TTCTGACGCAACCTTAAGCATTTAAATCCATTTGCTTCTGTCACCGATTTTCAAGA 1370  
 Db 1335 TTCTGACGCTACGCCCAAGCATGAAATCCATTTGCTTCTGCAATCCGATTTTCAAGA 1394  
 QY 1371 AGACAATGAACAGAAATTAACCTTCTGCTCAAAACAGCAGCTCACGATTTGTTGGGACTCT 1430

Db 1395 AGATACGGAACAGAGATAAATCTTCTACTGAAACAGGCAATTCACAATTTGTTGGAACT 1454  
 QY 1431 GCCATTTACTTACATCTTAGAGAAAGTGGAGGTGGATGGTCTTTAAAGGGGAATTTCCCAA 1490  
 Db 1455 ACCGTTTACTTACATCTTAGAGAAAGTGGAGGTGGATGGTCTTTCCGGGTGAAATTTCCCAA 1514  
 QY 1491 AGACCAGTGGATGAAAGAGTGGTGGAGATGAAGCGAGAGATAGTTGGGGTGGTGAAC 1550  
 Db 1515 AGACAGTGGATGAAAGAGTGGTGGAGATGAAGCGGAGATCGTTGGTGGTGGAGCC 1574  
 QY 1551 TGTGCCCCATGATGAACATACCTGTGACCCCGCATCTCTGTCCCATGTTCTTAATCATTA 1610  
 Db 1575 TCTGCCCTGCTGATGAACATACCTGTGACCCCGCATCTCTGTCCCATGTTCTTAATCATTA 1634  
 QY 1611 CTCAATTCATTCGATATTTACACAAGGACCCCTTTTACCAATTTCCAGTTTCAAGAAGCCTTTG 1670  
 Db 1635 CTCAATTCATTCGATATTTACACAAGGACCCCTTTTACCAATTTCCAGTTTCAAGAAGCCTTTG 1694  
 QY 1671 TCAAGCAGCTTAAACATGAAGGCCCTCTGCACAAATGTGACATCTCAAACTCTACAGAAC 1730  
 Db 1695 TCAAGCAGCTTAAAGTATAATGGTTCTCTGCACAAATGTGACATCTCAAACTCTACAGAAC 1754  
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 Db 1755 TGGCAGAAAGTGTCTCAAGATGCTGAGTCTTGGAAATTTCAAGGCCCTGGAGCCGAGCCTT 1814  
 QY 1791 GGAATATGTTTAGGAGCAAGAACATGAATGAAGGCCACTGCTCAACTTACTTTGAGCC 1850  
 Db 1815 GGAATATGTTTAGGAGCAAGAACATGAATGAAGGCCACTGCTCAACTTACTTTGAGCC 1874  
 QY 1851 CTTATTTTACCTGGCTGAAGACAGAACAGAAATCTCTTTTGTGGAGTACCGACTG 1910  
 Db 1875 GTTGTGTTGACTGGCTGAAGAGCAGAAATCTCTTTTGTGGGGTGAACACTGAATG 1934  
 QY 1911 GAGTCCATATGACACCAAGCATCAAGTGAAGTAAAGCTTAAATCAAGCTCTCTTGAGA 1970  
 Db 1935 GAGCCCATATGCCACCAAGCATTAAGTGAAGTAAAGCTTAAATCAAGCTCTCTTGAGC 1994  
 QY 1971 TAAAGCATATGAATGGAACAGCAATGAATGAATGTTAGCTGTTCCGATCATCTGTTGCATATGC 2030  
 Db 1995 TAATGCATATGAATGGAACAGCAATGAATGTTAGCTGTTCCGATCATCTGTTGCATATGC 2054  
 QY 2031 TATGAGCGCTACTTTTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 2090  
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SOURCE		Mus musculus	
ORGANISM		Mus musculus CDNA to mRNA.	
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AUTHORS		1 (sites)	
TITLE		Komatsu, T., Sugano, S., Imai, J., Suzuki, Y., Hanaoka, K., Ymada, Y.,	
JOURNAL		Hida, M., Tanigami, A. and Muroi, S.	
REFERENCE		Molecular cloning, mRNA expression, and chromosomal localization of	
AUTHORS		mouse Angiotensin-converting Enzyme-Related Carboxypeptidase	
TITLE		2 (bases 1 to 2760)	
JOURNAL		Komatsu, T., Sugano, S. and Suzuki, Y.	
REFERENCE		Submitted (04-JAN-2001) Takami Komatsu, The Institute of medical	
AUTHORS		science, University of Tokyo, Laboratory of Genome Structure	
TITLE		Analysis; 4-6-1, Shirokanedai, Minato-ku, Tokyo 108-8639, Japan	
JOURNAL		(E-mail: komatsu@u-tokyo.ac.jp, Tel: 81-3-5449-5283 (ex. 75283),	
FEATURES		Fax: 81-3-5449-5416)	
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		RLWAEGRVAKQRLPYEYVWLKNEMARANNNDYDWRGDEYAEAGADGYN	
		RNGLIEDVERTFAEIKPLYEHLHAYVRRLMDTPSYISPTGCLPAHLGLDMWGRT	
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